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**Imagery analysis report**

## **Quay Construction at Severodvinsk Shipyard Complex, USSR (S)**

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**Z-20029/81  
IAR-0029/81  
MARCH 1891  
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## QUAY CONSTRUCTION AT SEVERODVINSK SHIPYARD COMPLEX, USSR (S)

1. (S/D) Extensive quay construction and modernization has taken place at the Severodvinsk Shipyard Complex, USSR, during the past seven years (Figure 1). New quays have been constructed at Severodvinsk Shipyard 402 [ ] and Severodvinsk Naval Base West [ ] and seawalls have been constructed at Severodvinsk Shipyard Yagry Island [ ] and at Severodvinsk Nuclear Submarine Special Support Facility (NSSSF; [ ]). The new quays will enable the Severodvinsk Shipyard Complex to provide additional support for the Soviet nuclear-powered submarine fleet by increasing shipyard capacity for fitting-out, repair, and berthing. These new support areas could also be used by surface combatants and auxiliary vessels; however, a shift toward this type of operational support has not been observed. The information cutoff date for this report is [ ]

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### SHIPYARD 402

2. (S/D) Areas of significant construction activity at Shipyard 402<sup>1</sup> are at reporting positions (RP) 1 and 2 (Figure 2) and at RP 9 (Figure 3). Quay improvements at RPs 1 and 2 began in the spring of 1975 and are continuing. The quay has been modified and expanded and is now 303 meters long. During the summer of 1977, the first evidence of new support building construction was observed adjacent to the improved quay. An administration/shop building was erected at RP 1 in conjunction with a large, new fabrication building at RP 2. Construction of additional support buildings continues in this area.

3. (S/D) The most extensive new construction was in the area of RP 9 (Figure 3). During the summer of 1977, a major modification of the old ballast can storage area was begun. Massive earth removal in the area of the old launchways and extensive dredging next to the new quay area occurred over the next three years. In addition, the launch basin in front of construction hall 3 was modified and building foundations were constructed.

4. (S/D) In December 1978, the first of three large cranes was erected at the new quay area at RP 9. Earth removal and dredging and construction of the new support building between the new quay and the launch basin were completed during the summer of 1980. This construction provided approximately 420 meters of new quayage. Following completion of the new quays and assembly of the second crane in the fall of 1980, this facility was used for the initial fitting-out of the Typhoon SSBN. The fitting-out of submarines will probably be the primary function of this new quay area. Construction of the quay was continuing and a third crane was being erected at the end of 1980.

5. (S/D) In addition to the construction at the above two locations, a new quay, 75 meters long, was constructed at the northeast end of the shipyard across the inlet from the powerplant (Figure 4). The two existing quays were also strengthened and enlarged, and dredging of the inlet continued during the last half of 1980. The total quay length is now 516 meters, and more expansion is probable.

### NAVAL BASE WEST

6. (S/D) Most of the quay construction at Naval Base West<sup>2</sup> has been associated with the development of the submarine-launched ballistic missile handling area at RPs 6 through 8 (Figure 5). Initial construction started in late 1974 with the strengthening of the quay area, subsequent emplacement of concrete slabs, and extensive dredging along the quay. In early 1979, assembly of a large rail-served traveling gantry crane began on the quay at RP 6. The crane and rail spur serving this area were completed by the summer of 1980. The improvement of the existing quays at RPs 1 through 5 and the new quay construction at RPs 6 through 8 provide 384 meters of usable berthing and support area. The quay improvements, along with the gantry crane and presence of SS-NX-20 associated equipment, indicate that this facility will probably be used for SS-NX-20 support for the Typhoon SSBN.<sup>3</sup> This facility could also support other systems.

### SHIPYARD YAGRY ISLAND AND THE NUCLEAR SUBMARINE SPECIAL SUPPORT FACILITY

7. (S/D) Although no new quays have been built at Shipyard Yagry Island or the NSSSF, seawalls were constructed at two locations. One seawall is north of RP 14 at Yagry Island<sup>4</sup> and the other is seaward of the NSSSF next to the new sewage treatment plant. The latter area is an unlikely candidate for extensive quay construction (Figure 6); however, the area next to the seawall north of RP 14 at Yagry Island could easily be converted to a large berthing site (Figure 7). The lengths of the seawalls at Yagry Island and NSSSF are 300 and 743 meters, respectively. No construction activity has been seen at either of these locations to indicate future quay construction.

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DOCUMENTS

1. DIA. NDA-06/5063/77, NBRG, *USSR Severodvinsk Shipyard 402*, 10 May 77 (SECRET [redacted]) 25X1  
[redacted] 25X1
2. DIA. NDA-06/5049/78, NBRG, *USSR Severodvinsk Naval Base West*, 11 May 79 (SECRET [redacted]) 25X1  
[redacted] 25X1
3. NPIC. [redacted] IAR-0221/80, *Probable NE-04 SLBM-Related Construction and Activity, Severodvinsk Naval* 25X1  
*Base West, USSR (S)*, Sep 80 (TOP SECRET [redacted]) 25X1
4. DIA. NDA-06/5062/77, NBRG, *USSR Severodvinsk Shipyard Yagry Island*, 10 May 77 (SECRET [redacted]) 25X1  
[redacted] 25X1
- \*Extracted information is classified SECRET [redacted] 25X1
- (S) Comments and queries regarding this report are welcome. They may be directed to [redacted] or 25X1  
[redacted] Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC, [redacted] 25X1

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